



[Go to Product page](#)

Datasheet for ABIN1944758

## anti-CSNK2A1/CK II alpha antibody (AA 162-195)

1 Image

2 Publications

### Overview

Quantity:	400 µL
Target:	CSNK2A1/CK II alpha (CSNK2A1)
Binding Specificity:	AA 162-195
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CSNK2A1/CK II alpha antibody is un-conjugated
Application:	Western Blotting (WB)

### Product Details

Immunogen:	This CSNK2A1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 162-195 amino acids from the Central region of human CSNK2A1.
Clone:	RB48212
Isotype:	Ig Fraction
Predicted Reactivity:	B, C, M, Rb, Rat, X, D
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

### Target Details

Target:	CSNK2A1/CK II alpha (CSNK2A1)
Alternative Name:	CSNK2A1 ( <a href="#">CSNK2A1 Products</a> )

## Target Details

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**Background:** Catalytic subunit of a constitutively active serine/threonine-protein kinase complex that phosphorylates a large number of substrates containing acidic residues C-terminal to the phosphorylated serine or threonine. Regulates numerous cellular processes, such as cell cycle progression, apoptosis and transcription, as well as viral infection. May act as a regulatory node which integrates and coordinates numerous signals leading to an appropriate cellular response. During mitosis, functions as a component of the p53/TP53-dependent spindle assembly checkpoint (SAC) that maintains cyclin-B-CDK1 activity and G2 arrest in response to spindle damage. Also required for p53/TP53-mediated apoptosis, phosphorylating 'Ser-392' of p53/TP53 following UV irradiation. Can also negatively regulate apoptosis. Phosphorylates the caspases CASP9 and CASP2 and the apoptotic regulator NOL3. Phosphorylation protects CASP9 from cleavage and activation by CASP8, and inhibits the dimerization of CASP2 and activation of CASP8. Regulates transcription by direct phosphorylation of RNA polymerases I, II, III and IV. Also phosphorylates and regulates numerous transcription factors including NF-kappa-B, STAT1, CREB1, IRF1, IRF2, ATF1, SRF, MAX, JUN, FOS, MYC and MYB. Phosphorylates Hsp90 and its co-chaperones FKBP4 and CDC37, which is essential for chaperone function. Regulates Wnt signaling by phosphorylating CTNNB1 and the transcription factor LEF1. Acts as an ectokinase that phosphorylates several extracellular proteins. During viral infection, phosphorylates various proteins involved in the viral life cycles of EBV, HSV, HBV, HCV, HIV, CMV and HPV. Phosphorylates PML at 'Ser-565' and primes it for ubiquitin-mediated degradation.

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**Molecular Weight:** 45144

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**Gene ID:** 1457

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**UniProt:** [P68400](#)

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**Pathways:** [SARS-CoV-2 Protein Interactome](#)

## Application Details

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**Application Notes:** WB: 1:1000

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**Restrictions:** For Research Use only

## Handling

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**Format:** Liquid

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**Buffer:** Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.

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## Handling

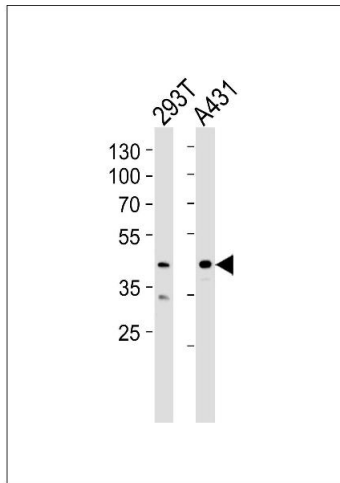
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Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Expiry Date:	6 months

## Publications

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Product cited in:	<p>Echard, Opdam, de Leeuw, Jollivet, Savelkoul, Hendriks, Voorberg, Goud, Fransen: "Alternative splicing of the human Rab6A gene generates two close but functionally different isoforms." in: <b>Molecular biology of the cell</b>, Vol. 11, Issue 11, pp. 3819-33, (2001) (<a href="#">PubMed</a>).</p> <p>Caillol, Pasqualini, Lloubes, Lombardo: "Impairment of bile salt-dependent lipase secretion in human pancreatic tumoral SOJ-6 cells." in: <b>Journal of cellular biochemistry</b>, Vol. 79, Issue 4, pp. 628-47, (2000) (<a href="#">PubMed</a>).</p> <p>Shan, Mason, Yuan, Barcia, Porti, Calabro, Budman, Vinciguerra, Xu: "Rab6c, a new member of the rab gene family, is involved in drug resistance in MCF7/AdrR cells." in: <b>Gene</b>, Vol. 257, Issue 1, pp. 67-75, (2000) (<a href="#">PubMed</a>).</p> <p>Zahraoui, Touchot, Chardin, Tavitian: "The human Rab genes encode a family of GTP-binding proteins related to yeast YPT1 and SEC4 products involved in secretion." in: <b>The Journal of biological chemistry</b>, Vol. 264, Issue 21, pp. 12394-401, (1989) (<a href="#">PubMed</a>).</p>
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### Western Blotting

**Image 1.** Western blot analysis of lysates from 293T, A431 cell line (from left to right), using CSNK2A1 Antibody (Center) (ABIN1944758 and ABIN2843651). (ABIN1944758 and ABIN2843651) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35 µg per lane.